

Dam Safety Inspection Checklist

Complete All Portions of This Section (Pre-inspection)

Date of Inspection: _____

Name of Dam: _____ File Number: _____

EAP: (yes, no) OM&I: (yes, no)

Review Inventory - Highlight missing information (Pre -inspection)

Owner=s Name(s): _____

Address: _____

City: _____ State: _____ Zip (+4): _____

Telephone (Home): _____ Telephone (Work): _____

Contact Person: _____ Telephone: _____

Designed By: _____

Constructed By: _____

Year Completed: _____ Plans Available (Yes, No) (location): _____

Purpose of dam: _____

Interview with Owner (at the site):

Owner/Representative present: (Yes, No) Name(s): _____

Double check address, telephone #, purpose (check ->) G

How long have you owned dam - previous name/owner? _____

EAP/OM&I: up-dated-(yes, no) & location: _____

Operate lake drain (times per year, accessibility): _____

Mowing (times per year): _____

Prior problems (wet areas, erosion, slides): _____

Repair or modification (what & when): _____

Failure/Incident/Breach (max. pool): _____

Downstream hazard status (recent changes): _____

Do you know the in-depth details of the construction of your dam? (If yes - ask next three questions, if no - go to Field Information Section)

Core trench material and location: _____

Volume of fill (earth or rock) in dam: _____

Foundation (earth or rock) of dam: _____

Field Information (while at site)

Pool Elevation (during inspection): _____ Time: _____ (a.m. p.m.)

Site Conditions(temp., weather, ground moisture): _____

Inspection Party: _____

Maximum Height: _____ (measured or inventory appears correct)

Normal Pool Surface Area: _____ (measured or inventory appears correct)

UPSTREAM SLOPE

Gradient: Horizontal: _____ Vertical: _____ (est, meas.)

Required
Action

None
Monitor
Maintenance
Engineer

☐ **VEGETATION** [no problem]

☐ Trees: Quantity: (<5, sparse, dense) _____

Diameter: (<6", 6-12", >12") _____

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____

Notes: _____

☐ ☐ ☐ ☐

☐ Brush: Quantity: (sparse, dense) _____

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____

Notes: _____

☐ ☐ ☐ ☐

☐ Ground Cover: Type: (grass, crown vetch) Other: _____

Quantity: (bare, sparse, adequate, dense) _____

Appearance: (too tall, too short, good) _____

Notes: _____

☐ ☐ ☐ ☐

☐ **SLOPE PROTECTION** [no problem, could not inspect thoroughly]

☐ None

☐ Riprap: Average Diameter: _____

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes: _____

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ Wave Berm:

Vegetation: (adequate, bare, sparse, improper vegetation) _____

Notes: _____

☐ ☐ ☐ ☐

☐ Concrete Slabs: (cracked, settlement, undermined, voids, deteriorated, vegetation)

Notes: _____

☐ ☐ ☐ ☐

☐ Other:

Notes: _____

☐ ☐ ☐ ☐

☐ **EROSION** [no problem, could not inspect thoroughly]

☐ Wave Erosion (Beaching): Scarp: Length: _____

Height: _____

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____

Notes: _____

☐ ☐ ☐ ☐

☐ Runoff Erosion (Gullies): Quantity: _____

Depth: _____ Width: _____ Length: _____

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____

Notes/Causes: _____

☐ ☐ ☐ ☐

☐ **INSTABILITIES** [no problem, could not inspect thoroughly]

☐ Slides: Transverse Length: _____

Longitudinal Length: _____

Scarp: Width: _____ Length: _____

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____

Crack: Width: _____

Depth: _____

Notes/Causes: _____

☐ ☐ ☐ ☐

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other

Quantity: _____ Length: _____ Width: _____ Depth: _____

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____

Notes/Causes: _____

☐ ☐ ☐ ☐

None
Monitor
Maintenance
Engineer

{Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, Emergency Spillway, Lake Drain}

Required
Action

						Required Action
						None Monitor Maintenance Engineer
<input type="checkbox"/> Cracks:	<input type="checkbox"/> Transverse	<input type="checkbox"/> Longitudinal	<input type="checkbox"/> Other			
Quantity:	Length:	Width:	Depth:			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)						
Notes/Causes:						
<input type="checkbox"/> Bulges	<input type="checkbox"/> Depressions	<input type="checkbox"/> Hummocky				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Size:	Height:	Depth:				
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)						
Notes/Causes:						
<input type="checkbox"/> Bulges	<input type="checkbox"/> Depressions	<input type="checkbox"/> Hummocky				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Size:	Height:	Depth:				
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)						
Notes/Causes:						
<input type="checkbox"/> OTHER	[no problem, could not inspect thoroughly]					
<input type="checkbox"/> Rodent Burrows:	(few, numerous)					<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)						
Notes:						
<input type="checkbox"/> Ruts:						<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)						
Depth: Width: Length:						
Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)						
<input type="checkbox"/> Other:						<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Notes:						
<hr/>						
CREST	Length:	Width:	(est, meas.)			
<input type="checkbox"/> VEGETATION	[no problem]					
<input type="checkbox"/> Trees:	Quantity: (<5, sparse, dense)					<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Diameter: (<6", 6-12", >12")						
Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)						
Notes:						
<input type="checkbox"/> Brush:	Quantity: (sparse, dense)					<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)						
Notes:						
<input type="checkbox"/> Ground Cover:	Type: (grass, crown vetch)	Other:				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Quantity: (bare, sparse, adequate, dense)						
Appearance: (too tall, too short, good)						
Notes:						
<input type="checkbox"/> EROSION	[no problem, could not inspect thoroughly]					
<input type="checkbox"/> Runoff Erosion (Gullies):	Quantity:	Depth:	Width:	Length:		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)						
Notes/Causes:						

		Required Action			
		None	Monitor	Maintenance	Engineer
<input type="checkbox"/> ALIGNMENT [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Vertical: <input type="checkbox"/> Low Area: Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Elevation Difference: _____ Length: _____ Notes/Causes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Horizontal: Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> WIDTH [no problem]					
<input type="checkbox"/> Too Narrow Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> INSTABILITIES [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Cracks: <input type="checkbox"/> Transverse <input type="checkbox"/> Longitudinal <input type="checkbox"/> Other Quantity: _____ Length: _____ Width: _____ Depth: _____ Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Cracks: <input type="checkbox"/> Transverse <input type="checkbox"/> Longitudinal <input type="checkbox"/> Other Quantity: _____ Length: _____ Width: _____ Depth: _____ Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bulges <input type="checkbox"/> Depressions <input type="checkbox"/> Hummocky Size: _____ Height: _____ Depth: _____ Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bulges <input type="checkbox"/> Depressions <input type="checkbox"/> Hummocky Size: _____ Height: _____ Depth: _____ Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OTHER [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Rodent Burrows: (few, numerous) _____ Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Notes: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Ruts: Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) _____ Depth: _____ Width: _____ Length: _____ Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian): _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: Notes: _____ _____ _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		None	Monitor	Maintenance	Engineer
		Required Action			

		Required Action			
		None	Monitor	Maintenance	Engineer
DOWNSTREAM SLOPE Gradient: Horizontal: _____ Vertical: _____ (est, meas.)					
<input type="checkbox"/> VEGETATION [no problem]					
<input type="checkbox"/> Trees: Quantity: (<5, sparse, dense) _____ Diameter: (<6", 6-12", >12") _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Brush: Quantity: (sparse, dense) _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Ground Cover: Type: (grass, crown vetch) Other: _____ Quantity: (bare, sparse, adequate, dense) _____ Appearance: (too tall, too short, good) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> EROSION [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Runoff Erosion (Gullies): Quantity: _____ Depth: _____ Width: _____ Length: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> INSTABILITIES [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Slides: Transverse Length: _____ Longitudinal Length: _____ Scarp: Width: _____ Length: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Crack: Width: _____ Depth: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Cracks: <input type="checkbox"/> Transverse <input type="checkbox"/> Longitudinal <input type="checkbox"/> Other Quantity: _____ Length: _____ Width: _____ Depth: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Cracks: <input type="checkbox"/> Transverse <input type="checkbox"/> Longitudinal <input type="checkbox"/> Other Quantity: _____ Length: _____ Width: _____ Depth: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bulges <input type="checkbox"/> Depressions <input type="checkbox"/> Hummocky Size: _____ Height: _____ Depth: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bulges <input type="checkbox"/> Depressions <input type="checkbox"/> Hummocky Size: _____ Height: _____ Depth: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		None	Monitor	Maintenance	Engineer
		Required Action			

	Required Action
	None Monitor Maintenance Engineer
<input type="checkbox"/> OTHER [no problem, could not inspect thoroughly]	
<input type="checkbox"/> Rodent Burrows: (few, numerous) _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Notes: _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Ruts: _____ Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) _____ Depth: _____ Width: _____ Length: _____ Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian): _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Other: _____ Notes: _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

<input type="checkbox"/> SEEPAGE [no problem, could not inspect thoroughly]	
<input type="checkbox"/> Wet Area <input type="checkbox"/> Flow <input type="checkbox"/> Boil <input type="checkbox"/> Sinkhole	
Flow Rate _____ Size: _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: _____	
<input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> None <input type="checkbox"/> Rust Colored Deposits <input type="checkbox"/> None <input type="checkbox"/> Sediment in Flow <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Notes/Causes: _____	
<input type="checkbox"/> Wet Area <input type="checkbox"/> Flow <input type="checkbox"/> Boil <input type="checkbox"/> Sinkhole	
Flow Rate _____ Size: _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Location: _____	
<input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> None <input type="checkbox"/> Rust Colored Deposits <input type="checkbox"/> None <input type="checkbox"/> Sediment in Flow <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Notes/Causes: _____	

<input type="checkbox"/> EMBANKMENT DRAINS [none, none found, no problem, could not inspect thoroughly]	
Type: <input type="checkbox"/> Toe Drain <input type="checkbox"/> Relief Wells <input type="checkbox"/> Other: _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Flow Rate: _____ Size: _____ Number: _____	
Location: _____	
Notes: _____	

<input type="checkbox"/> MONITORING INSTRUMENTATION [none, none found, no problem, could not inspect thoroughly]	
<input type="checkbox"/> None Found <input type="checkbox"/> Piezometers <input type="checkbox"/> Weirs/Flumes <input type="checkbox"/> Other	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Periodic Inspections by: _____	
Notes: _____	

PRINCIPAL SPILLWAY

	None	Monitor	Maintenance	Engineer	Required Action
GENERAL INLET [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Anti-Vortex Plate [None] Dimensions: _____ (adequate, too small,)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type: (steel, concrete, aluminum, stainless steel, corrugated metal wood, other): _____					
Deterioration: (missing sections, rusted, collapsed) _____					
Notes: _____					
<input type="checkbox"/> Flash Boards [None]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type: (metal, wood): _____					
Deterioration: _____					
Notes: _____					
<input type="checkbox"/> Trashrack [None] Opening Size: _____ (adequate, too small, too large)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type: (metal bars, fence, screen, concrete, baffle, other): _____					
Deterioration: (broken bars, missing sections, rusted, collapsed) _____					
Notes: _____					
INLET OBSTRUCTION [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Debris: (leaves, trash, logs, branches, ice) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Trees: Quantity: (<5, sparse, dense) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Diameter: (<6", 6-12", >12") _____					
Location: (entire inlet, lt side, rt side, middle, see dwg) _____					
Notes: _____					
<input type="checkbox"/> Brush: Quantity: (sparse, dense) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Location: (entire inlet, lt side, rt side, middle, see dwg) _____					
Notes: _____					
<input type="checkbox"/> Other: (beaver activity, trashrack opening too small, partially/completely blocked, i.e.) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Notes: _____					
INLET MATERIALS [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Metal					
(loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dimensions: _____					
Location: _____					
Notes/Causes: _____					
<input type="checkbox"/> Concrete					
(bug holes, hairline crack, efflorescence) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(spalling, popouts, honeycombing, scaling, craze/map cracks) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(isolated crack, exposed rebar, disintegration, other) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dimensions/Location: _____					
Notes/Causes: _____					
(bug holes, hairline crack, efflorescence) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(spalling, popouts, honeycombing, scaling, craze/map cracks) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(isolated crack, exposed rebar, disintegration, other) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dimensions/Location: _____					
Notes/Causes: _____					
<input type="checkbox"/> Plastic					
(deterioration, cracking, deformation) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dimensions: _____					
Location: _____					
Notes/Causes: _____					
{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway-Inlet, Emergency Spillway, Lake Drain }					Required Action

		Required Action			
		None	Monitor	Maintenance	Engineer
<input type="checkbox"/> Earthen					
<input type="checkbox"/> Ground Cover: Type: (grass, crown vetch) Other: _____ Quantity: (bare, sparse, adequate, dense) _____ Appearance: (too tall, too short, good) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Erosion: (wave, surface runoff) _____ Description (height/depth/length/etc): _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Ruts: Location: (entire inlet, lt side, rt side, middle, see dwg) _____ Depth: _____ Width: _____ Length: _____ Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian) _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Riprap: Average Diameter: _____ (adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Rock-Cut (weathered, erosion) Description: _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OTHER INLET PROBLEMS [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Mis-Alignment:(pipe, chute, sidewall, headwall) <input type="checkbox"/> Pipe Deformation _____ Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Separated Joint <input type="checkbox"/> Loss of Joint Material Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Undermining: Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OPEN CHANNEL CONTROL SECTION [no problem, could not inspect] Width _____ (est., ms.) Brdth _____ (est., ms.) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OUTLET OBSTRUCTION [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Debris: (leaves, trash, logs, branches, ice) _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Trees: Quantity: (<5, sparse, dense) _____ Diameter: (<6", 6-12", >12") _____ Location: (entire outlet, lt side, rt side, middle, see dwg) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Brush: Quantity: (sparse, dense) _____ Location:(entire outlet, lt side, rt side, middle, see dwg) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other:(beaver activity, partially/completely blocked, i.e.) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway-Inlet/Outlet , Emergency Spillway, Lake Drain }		None	Monitor	Maintenance	Engineer

		Required Action			
		None	Monitor	Maintenance	Engineer
<input type="checkbox"/>	OUTLET MATERIALS [no problem, could not inspect thoroughly]				
<input type="checkbox"/>	Metal (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation)				
	Dimensions: _____				
	Location: _____				
	Notes/Causes: _____				
<input type="checkbox"/>	Concrete				
	(bug holes, hairline crack, efflorescence)				
	(spalling, popouts, honeycombing, scaling, craze/map cracks)				
	(isolated crack, exposed rebar, disintegration, other)				
	Dimensions/Location: _____				
	Notes/Causes: _____				
	(bug holes, hairline crack, efflorescence)				
	(spalling, popouts, honeycombing, scaling, craze/map cracks)				
	(isolated crack, exposed rebar, disintegration, other)				
	Dimensions/Location: _____				
	Notes/Causes: _____				
<input type="checkbox"/>	Plastic (deterioration, cracking, deformation)				
	Dimensions: _____				
	Location: _____				
	Notes/Causes: _____				
<input type="checkbox"/>	Earthen				
<input type="checkbox"/>	Ground Cover: Type: (grass, crown vetch) Other: _____				
	Quantity: (bare, sparse, adequate, dense)				
	Appearance: (too tall, too short, good)				
	Notes: _____				
<input type="checkbox"/>	Erosion: (other, surface runoff)				
	Description (width/depth/length/etc): _____				
	Notes: _____				
<input type="checkbox"/>	Ruts:				
	Location: (entire inlet, lt side, rt side, middle, see dwg)				
	Depth: _____ Width: _____ Length: _____				
	Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)				
<input type="checkbox"/>	Riprap: Average Diameter: _____				
	(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)				
	Notes: _____				
<input type="checkbox"/>	Rock-Cut (weathered, erosion)				
	Description/Notes: _____				
<input type="checkbox"/>	Other: _____				
<input type="checkbox"/>	OTHER OUTLET PROBLEMS [no problem, could not inspect thoroughly]				
<input type="checkbox"/>	Mis-Alignment: (pipe, chute, sidewall, headwall)				
	Location/Description: _____				
	Notes/Causes: _____				
<input type="checkbox"/>	Pipe Deformation				
<input type="checkbox"/>	Separated Joint				
<input type="checkbox"/>	Loss of Joint Material				
	Location/Description: _____				
	Notes/Causes: _____				
<input type="checkbox"/>	Undermining:				
	Location/Description: _____				
	Notes/Causes: _____				
<input type="checkbox"/>	Other: _____				
	{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway-Outlet , Emergency Spillway, Lake Drain }				

			Required Action			
			None	Monitor	Maintenance	Engineer
OUTLET EROSION CONTROL STRUCTURE (Stilling Basins)						
<input type="checkbox"/> None			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> (endwall/headwall, plunge pool, impact basin, flip bucket, USBR, baffled chute, rock lined channel)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes: _____						
Components (baffle blocks, chute blocks, endsill) _____						
 <input type="checkbox"/> MATERIAL [no problem, could not inspect thoroughly]						
<input type="checkbox"/> Riprap: Average Diameter: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)						
Notes: _____						
 <input type="checkbox"/> Concrete						
(bug holes, hairline crack, efflorescence)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(spalling, popouts, honeycombing, scaling, craze/map cracks)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(isolated crack, exposed rebar, disintegration, other)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions/Location: _____						
Notes/Causes: _____						
 (bug holes, hairline crack, efflorescence)						
(spalling, popouts, honeycombing, scaling, craze/map cracks)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(isolated crack, exposed rebar, disintegration, other)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions/Location: _____						
Notes/Causes: _____						
 <input type="checkbox"/> OTHER [no problem, could not inspect thoroughly]						
<input type="checkbox"/> Mis-Alignment: (sidewall, headwall, entire struct.) _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location: _____						
Description: _____						
Notes/Causes: _____						
 <input type="checkbox"/> Separated Joint <input type="checkbox"/> Loss of Joint Material						
Location: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description: _____						
Notes/Causes: _____						
 <input type="checkbox"/> Undermining:						
Location: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description: _____						
Notes/Causes: _____						
 <input type="checkbox"/> Other: _____						
 <input type="checkbox"/> DRAINS [none, none found, no problem, could not inspect thoroughly] (See SEEPAGE Section for Toe Drains & Relief Wells)						
Type: <input type="checkbox"/> Weep Holes <input type="checkbox"/> Relief Drains <input type="checkbox"/> Other: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow Rate: _____ Size: _____ Number: _____						
Location: _____						
Notes: _____						
 Type: <input type="checkbox"/> Weep Holes <input type="checkbox"/> Relief Drains <input type="checkbox"/> Other: _____						
Flow Rate: _____ Size: _____ Number: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location: _____						
Notes: _____						

None

Monitor

Maintenance

Engineer

Required Action

EMERGENCY SPILLWAY

Required
Action
None
Monitor
Maint.
Engineer

☐ None Found

☐ ☐ ☐ ☐

☐ **GENERAL INLET** [no problem, could not inspect thoroughly]

☐ Anti-Vortex Plate [None] Dimensions: _____ (adequate, too small,)

☐ ☐ ☐ ☐

Type: (steel, concrete, aluminum, stainless steel, corrugated metal wood, other): _____

Deterioration: (missing sections, rusted, collapsed) _____

Notes: _____

☐ Flash Boards [None]

☐ ☐ ☐ ☐

Type: (metal, wood): _____

Deterioration: _____

Notes: _____

☐ Trashrack [None] Opening Size: _____ (adequate, too small, too large)

☐ ☐ ☐ ☐

Type: (metal bars, fence, screen, concrete, baffle, other): _____

Deterioration: (broken bars, missing sections, rusted, collapsed) _____

Notes: _____

☐ **INLET OBSTRUCTION** [no problem, could not inspect thoroughly]

☐ Debris: (leaves, trash, logs, branches, ice) _____

☐ ☐ ☐ ☐

☐ Trees: Quantity: (<5, sparse, dense) _____

☐ ☐ ☐ ☐

Diameter: (<6", 6-12", >12") _____

Location: (entire inlet, lt side, rt side, middle, see dwg) _____

Notes: _____

☐ Brush: Quantity: (sparse, dense) _____

☐ ☐ ☐ ☐

Location: (entire inlet, lt side, rt side, middle, see dwg) _____

Notes: _____

☐ Other: (beaver activity, trashrack opening too small, partially/completely blocked, i.e.) _____

☐ ☐ ☐ ☐

Notes: _____

☐ **INLET MATERIALS** [no problem, could not inspect thoroughly]

☐ Metal

(loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) _____

☐ ☐ ☐ ☐

Dimensions/Location: _____

Notes/Causes: _____

☐ Concrete

(bug holes, hairline crack, efflorescence) _____

☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) _____

☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) _____

☐ ☐ ☐ ☐

Dimensions/Location: _____

Notes/Causes: _____

(bug holes, hairline crack, efflorescence) _____

☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) _____

☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) _____

☐ ☐ ☐ ☐

Dimensions/Location: _____

Notes/Causes: _____

☐ Plastic

(deterioration, cracking, deformation) _____

☐ ☐ ☐ ☐

Dimensions/Location: _____

Notes/Causes: _____

{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, **Emergency Spillway-Inlet**, Lake Drain }

None
Monitor
Maintenance
Engineer
Required
Action

		Required Action			
		None	Monitor	Maintenance	Engineer
<input type="checkbox"/> Earthen					
<input type="checkbox"/> Ground Cover: Type: (grass, crown vetch) Other: _____ Quantity: (bare, sparse, adequate, dense) _____ Appearance: (too tall, too short, good) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Erosion: (wave, surface runoff) _____ Description (height/depth/length/etc): _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Ruts: Location: (entire inlet, lt side, rt side, middle, see dwg) _____ Depth: _____ Width: _____ Length: _____ Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian) _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Riprap: Average Diameter: _____ (adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Rock-Cut (weathered, erosion) Description: _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OTHER INLET PROBLEMS [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Mis-Alignment:(channel, chute, sidewall, headwall) <input type="checkbox"/> Pipe Deformation _____ Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Separated Joint <input type="checkbox"/> Loss of Joint Material Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Undermining: Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OPEN CHANNEL CONTROL SECTION [no problem, could not inspect]					
Width _____ (est., ms.) Brdth _____ (est., ms.) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OUTLET OBSTRUCTION [no problem, could not inspect thoroughly]					
<input type="checkbox"/> Debris: (leaves, trash, logs, branches, ice) _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Trees: Quantity: (<5, sparse, dense) _____ Diameter: (<6", 6-12", >12") _____ Location: (entire outlet, lt side, rt side, middle, see dwg) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Brush: Quantity: (sparse, dense) _____ Location:(entire outlet, lt side, rt side, middle, see dwg) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other:(beaver activity, partially/completely blocked, i.e.) _____ Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, Emergency Spillway-Inlet/Outlet , Lake Drain }					

None
Monitor
Maintenance
Engineer

☐ **OUTLET MATERIALS** [no problem, could not inspect thoroughly]

☐ Metal (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation)
Dimensions: _____
Location: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ Concrete (bug holes, hairline crack, efflorescence)
(spalling, popouts, honeycombing, scaling, craze/map cracks)
(isolated crack, exposed rebar, disintegration, other)
Dimensions/Location: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

(bug holes, hairline crack, efflorescence)
(spalling, popouts, honeycombing, scaling, craze/map cracks)
(isolated crack, exposed rebar, disintegration, other)
Dimensions/Location: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ Plastic (deterioration, cracking, deformation)
Dimensions: _____
Location: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ Earthen

☐ Ground Cover: Type: (grass, crown vetch) Other: _____
Quantity: (bare, sparse, adequate, dense)
Appearance: (too tall, too short, good)
Notes: _____

☐ ☐ ☐ ☐

☐ Erosion: (other, surface runoff)
Description (width/depth/length/etc): _____
Notes: _____

☐ ☐ ☐ ☐

☐ Ruts:
Location: (entire inlet, lt side, rt side, middle, see dwg)
Depth: _____ Width: _____ Length: _____
Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)

☐ ☐ ☐ ☐

☐ Riprap: Average Diameter: _____
(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)
Notes: _____

☐ ☐ ☐ ☐

☐ Rock-Cut (weathered, erosion)
Description: _____
Notes: _____

☐ ☐ ☐ ☐

☐ Other: _____

☐ ☐ ☐ ☐

☐ **OTHER OUTLET PROBLEMS** [no problem, could not inspect thoroughly]

☐ Mis-Alignment: (channel, chute, sidewall, headwall) ☐ Pipe Deformation
Location/Description: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ Separated Joint ☐ Loss of Joint Material
Location/Description: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ Undermining:
Location/Description: _____
Notes/Causes: _____

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ Other: _____
{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, **Emergency Spillway-Outlet**, Lake Drain }

☐ ☐ ☐ ☐

			Required Action			
			None	Monitor	Maint.	Engineer
OUTLET EROSION CONTROL STRUCTURE (Stilling Basins)						
<input type="checkbox"/> None			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> (endwall/headwall, plunge pool, impact basin, flip bucket, USBR, baffled chute, rock lined channel)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes: _____						
Components (baffle blocks, chute blocks, endsill) _____						
 <input type="checkbox"/> MATERIAL [no problem, could not inspect thoroughly]						
<input type="checkbox"/> Riprap: Average Diameter: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)						
Notes: _____						
<input type="checkbox"/> Concrete			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(bug holes, hairline crack, efflorescence) _____						
(spalling, popouts, honeycombing, scaling, craze/map cracks)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(isolated crack, exposed rebar, disintegration, other)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions/Location: _____						
Notes/Causes: _____						

(bug holes, hairline crack, efflorescence) _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(spalling, popouts, honeycombing, scaling, craze/map cracks)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(isolated crack, exposed rebar, disintegration, other)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions/Location: _____						
Notes/Causes: _____						

 <input type="checkbox"/> OTHER [no problem, could not inspect thoroughly]						
<input type="checkbox"/> Mis-Alignment: (sidewall, headwall) _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location: _____						
Description: _____						
Notes/Causes: _____						

<input type="checkbox"/> Separated Joint	<input type="checkbox"/> Loss of Joint Material		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location: _____						
Description: _____						
Notes/Causes: _____						

<input type="checkbox"/> Undermining:			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location: _____						
Description: _____						
Notes/Causes: _____						

<input type="checkbox"/> Other: _____			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 <input type="checkbox"/> DRAINS [none, none found, no problem, could not inspect thoroughly] (See SEEPAGE Section for Toe Drains & Relief Wells)						
Type: <input type="checkbox"/> Weep Holes	<input type="checkbox"/> Relief Drains	<input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow Rate: _____	Size: _____	Number: _____				
Location: _____						
Notes: _____						

Type: <input type="checkbox"/> Weep Holes	<input type="checkbox"/> Relief Drains	<input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow Rate: _____	Size: _____	Number: _____				
Location: _____						
Notes: _____						

LAKE DRAIN

☐ GENERAL

☐ None Found ☐ Does not have one

☐ Type of Lake Drain (isolated control/intake tower, valve vault w/ outlet conduit, valve in riser/drop inlet, siphon)

Notes: _____

☐ Operated During Inspection (yes, no) _____

Notes: _____

☐ ACCESS TO VALVE/SLUICE GATE [no problem, could not inspect thoroughly]

☐ Type (not accessible, from shore, boat, walkway, other) _____

Notes: _____

☐ Walkway/Platform: _____

☐ Concrete Deterioration ☐ Cracks (platform, piers, end supports, railing)

Location: _____

Notes: _____

☐ Wood Deterioration

Notes: _____

☐ Metal Deterioration

(minor, moderate, extensive, other) _____

Notes: _____

☐ LAKE DRAIN COMPONENTS [no problem, could not inspect thoroughly]

☐ Concrete Structure

Location: _____

Description: (deterioration, misalignment, cracks): _____

Notes/Causes: _____

☐ Valve Control (Operating Device)

☐ No Operating Device

☐ No Stem

☐ Bent/Broken Stem

☐ Other

Notes/Operability: _____

☐ Valve / Sluice Gate

☐ Metal Deterioration: (surface rust, minor, moderate, extensive, other) _____

Location: _____

Flow Rate: _____

Notes/Causes: _____

☐ Misalignment

Notes/Causes: _____

☐ Leakage - Flow Rate:

Notes/Causes: _____

☐ Valve / Sluice Gate

☐ Metal Deterioration: (surface rust, minor, moderate, extensive, other) _____

Location: _____

Flow Rate: _____

Notes/Causes: _____

☐ Misalignment - Notes/Causes: _____

☐ Leakage - Flow Rate:

Notes/Causes: _____

{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, Emergency Spillway, **Lake Drain** }

**Required
Action**

None
Monitor
Maint.
Engineer

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

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☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

**Required
Action**

☐ ☐ ☐ ☐

None
Monitor
Maintenance
Engineer

		Required Action			
		None	Monitor	Maintenance	Engineer
<input type="checkbox"/> Outlet Conduit					
<input type="checkbox"/> Metal: (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out) Location: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Concrete (bug holes, hairline crack, efflorescence) (spalling, popouts, honeycombing, scaling, craze/map cracks) (isolated crack, exposed rebar, disintegration, other) Dimensions/Location: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Plastic: (deterioration, cracking) Location: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Conduit Deformation <input type="checkbox"/> Mis-Alignment: Location: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Separated Joint <input type="checkbox"/> Loss of Joint Material Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Undermining: Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Vegetation (trees, brush) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Energy Dissipator					
<input type="checkbox"/> Type (endwall, plunge pool, impact basin, stilling basin, rock-lined channel, none) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Riprap: Average Diameter: _____ (adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no) Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Concrete (bug holes, hairline crack, efflorescence) (spalling, popouts, honeycombing, scaling, craze/map cracks) (isolated crack, exposed rebar, disintegration, other) Dimensions/Location: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Mis-Alignment: Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Separated Joint <input type="checkbox"/> Loss of Joint Material Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Undermining: Location/Description: _____ Notes/Causes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: Notes: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
{ Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, Emergency Spillway, Lake Drain }		None	Monitor	Maintenance	Engineer